

AWARDS OF
EXCELLENCE
UTAA honours stellar
faculty, staff and
students - pages 6-7

MARCH 29, 2011 64th year, number 15

# the Bulletin

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ELECTIONS

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seeking input about its
elections process. An
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htm

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# LONG-TERM SERVICE RECOGNIZED

BY KELLY RANKIN

**Looking at** this year's long-term service award recipients one wonders if the fountain of youth is hidden somewhere at U of T.

On March 22, the university recognized faculty, staff and librarians for their long-term service. According to Professor **Angela Hildyard**, vice-president (human resources and equity), there were "3,287 years of service" in attendance for the ceremony.

President **David Naylor** joined Hildyard, who received an award for her 35 years of service, in welcoming the assembled guests and thanked them for their commitment to the university. "You've witnessed the comings and goings of thousands of young people," said Naylor. "Their success is due, in meaningful measure, to your contributions to this institution."

In all, 169 people were recognized for 25 years of service, 105 for 35 years, 58 for 40 years and 40 individuals for 40-plus years of service, joining a distinguished group of more than 4,000 previously honoured colleagues. "All are remarkable individuals," said Hildyard.

Among the recipients was **Terri LeClair**, executive assistant and special events co-ordinator in the office of the assistant vice-president (human resources). LeClair not only attended the ceremony to pick up her award for 25 years of service; she planned the event.

LeClair said of her time at U of T: "It's a wonderful place, with lots of opportunity. If you come into the university, stay; it's very rewarding."

**Terry DeGeer**, senior payroll administrator in human resources at U of T Scarborough, spent the first 30 years of her career on the downtown campus before moving east. Recognized for 35 years of service, DeGeer attributes her longevity at U of T to the learning opportunities afforded employees.

Topping the list with 53 years of service each were **John Hunt** of medical biophysics and **Charles Godfrey** from the division of psychiatry in the Department of Medicine. However, only Godfrey can take credit for teaching a young intern named David Naylor to tie a tie.

The Bulletin asked Ronald Tasker of surgery and Harold Atwood of physiology— with 95 years of service between them— their secret to a long, fruitful career. "We both enjoy what we've been doing and we both have additional interests besides what we do in work. [Tasker] is an authority on butterflies as well as being an eminent neurosurgeon," said Atwood.

George Steiner of medicine said having a supportive family and good health were important in sustaining him through 45 years of service. "Maintain good health to ensure you're able to enjoy what you're doing and do it for a long time," he said.

# DANCING THE NIGHT AWAY



U of T's annual Festival of Dance, March 25 to 26, featured 40 performances in a variety of styles, including ballet, Bollywood, Irish and hip hop

# U of T's first elder-inresidence still going strong

BY ANJUM NAYYAR

"Everywhere I go I talk about the University of Toronto and how the doors are always open at First Nations House."

Eighty six-year-old **Lillian McGregor** speaks passionately about her ties to U of T and its First Nations House. McGregor was the first elderin-residence at the University of Toronto First Nations House and received an honorary doctor of laws degree in recognition of her

outstanding contribution.

"I've been a resident of Toronto since 1939 and in that time there were different schools I went to. First Nations House is very unique and I really admire what they've done at U of T."

In 1996 a U of T scholarship was established in her name. Each year the Lillian McGregor Award of Excellence at the University of Toronto is awarded to a native woman studying at U of T who has demonstrated academic excellence, community service and financial need.

··· FIRST ON PAGE 4

# Former CFL stars to coach Varsity Blues football

BY MARY BETH CHALLONER

**Former CFL** standouts **Greg Gary** and **Donnavan Carter** have joined the Varsity Blues football program for the 2011 season.

Gary has been named the manager of football — coaching and operations, while Carter becomes the team's defensive co-ordinator.

"Greg and Donnavan are great coaches and proven leaders who are already very familiar with our system and players," said **Beth Ali**, director of intercollegiate and high performance sport. "They are a natural fit to work alongside offensive co-ordinator **John Engel** and the rest of the coaching staff and we are confident they will continue to improve the competitiveness of this program."

After a stint as U of T's linebackers coach in 2008, Gary returns to the Blues sidelines with more than 20 years of coaching experience under his belt.

The native of Claremont, Calif., got his start as the head coach of the junior varsity football team at his alma mater, Claremont High School. Gary has been a guiding influence in the Mississauga football league since 1995 and most recently became the head coach of the Warriors rep football team in 2005, leading them to an Ontario Varsity Football League (OVFL) junior varsity championship in 2008.

As an athlete, Gary received a scholarship to California State University, Fullerton, where he was the captain of the football team and won an Iron Man award in 1981. He signed as a free agent with the NFL's Los Angeles Rams in 1982 and then headed north a year later, playing four years with the Hamilton Tiger Cats and winning the Grey Cup in 1986.

A native of Mississauga, Carter was the fourth overall pick of the Toronto Argonauts in the 2000 CFL draft after ... FORMER ON PAGE 4

#### LETTER FROM THE EDITOR



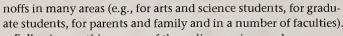
#### The world of communications ...

**is changing** and the way we deliver news at the University of Toronto is changing, too.

For years, we've communicated with faculty and staff via a newspaper. The original Bulletin was a single-page newsletter that

later morphed into a booklet the size of a paperback novel. It was published once a month. It wasn't until 1968 that it grew to its current size and began publishing twice a month in black and white. Colour was a much more recent addition.

In 2007, in response to the findings of the 2006 Speaking Up Employee Experience Survey, we launched *the Bulletin*'s electronic sibling, the eBulletin. In the years since then, the eBulletin has become an effective and popular internal communications tool, and we've seen the launch of spi-



Following on this success of the online version, we have decided to publish the print *Bulletin* once per month from April to September. After this time, we intend to produce special print editions of *the Bulletin* through the year, focusing on various celebrations such as convocation. The eBulletin will continue to be published regularly.

In place of a regular print publication, we will have an exciting new online news site, that will take advantage of a strategic mix of multi-media tools and will be able to accommodate more — and timelier — news coverage for a range of audiences.

We'll continue to tell engaging stories about our outstanding teaching and research, along with important news about benefits, courses and events. Stay tuned for the next iteration of *the Bulletin* 

Regards,

Claine

P.S. The next issue of *the Bulletin* is slated for April 19.

## **Elaine Smith**Editor

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The top and sidebar art on the front page is composed of photographs taken at the University of Toronto.

### FACULTY OF APPLIED SCIENCE & ENGINEERING

Professors Aimy Bazylak, Markus Bussmann, Javad Mostaghimi, James Wallace, Lidan You and Jean Zu of mechanical and industrial engineering are the winners of all six of the 2011 Canadian Society for Mechanical Engineering (CSME) awards. Bazylak has been selected to receive the I.W. Smith Award for outstanding achievement in creative mechanical engineering within 10 years of graduation. Bussmann was elected a fellow of the society, honouring excellence in mechanical engineering and significant contributions to the profession and to society. Mostaghimi was awarded the Jules Stachiewicz Medal for outstanding contributions to heat transfer in Canada, while Wallace was selected to receive the Robert W. Angus Medal for outstanding contributions to the management and practice of mechanical engineering. You is this year's recipient of the G.H. Duggan Medal, awarded annually for the best paper dealing with the use of advanced materials for structural or mechanical purposes. Zu garnered the C.N. Downing Award for distinguished service to the society over many years. The six will be honoured at the CSME awards ceremony June 6 in Vancouver.

#### **FACULTY OF ARTS & SCIENCE**

Professor **Konrad Eisenbichler** of Victoria College's Renaissance studies program has been appointed Commendatore, Ordine al Merito della Repubblica Italia. The Order of Merit of the Italian Republic is the highest of the orders of the Italian Republic and is awarded for contributions in the fields of literature, the arts, economics, public service and social, philanthropic and humanitarian activities. The order is bestowed by decree of the president of the Italian Republic, as head of the orders of knighthood. The knighthood was officially conferred on Eisenbichler Dec. 2 in a ceremony in Toronto.

#### **AWARDS & HONOURS**

#### **FACULTY OF DENTISTRY**

Professor **Richard Ellen** of the Matrix Dynamics Group is the recipient of the Canadian Dental Association's Distinguished Service Award, given in recognition of either an outstanding contribution in a given year or outstanding service over a number of years to the association and the dental profession. A special ceremony honouring award recipients will be held in conjunction with the association's annual general meeting April 15 in Ottawa.

#### FACULTY OF MEDICINE

Professor **Sylvia Asa** of laboratory medicine and pathobiology is the winner of the 2011 F.K. Mostofi Distinguished Service Award, given to a member of the United States and Canadian Academy of Pathology (USCAP) who has performed outstanding service to the International Academy of Pathology (IAP) and its U.S.-Canadian division. As a received the award during the 100th annual meeting of USCAP Feb. 26 to March 4 in San Antonio, Tex.

Saimah Baig and Drs. Kymm Feldman, Rebecca Malik, Howard Shiffman, Karen Weyman and Dave Wheler of family and community medicine are the winners of the Helen P. Batty Award for Excellence and Achievement in Faculty Development from the Centre for Faculty Development. They received the award in the program development and design category for their work on the undergraduate education faculty development workshop committee. The centre established the awards in 2005 to recognize excellence in faculty development programming and teaching in the Faculty of Medicine.

#### LESLIE DAN FACULTY OF PHARMACY

Professor **Linda Dresser**, co-ordinator of the infectious diseases pharmacotherapy courses in both the full-time and part-time doctor of pharmacy programs, has been named a fellow of the Canadian Society of Hospital Pharmacists. Fellow status is conferred on CSHP members who have demonstrated noteworthy, sustained service and excellence in the practice of pharmacy in an organized healthcare setting. Dresser was recognized for her outstanding contributions to the study and teaching of diseases.

COMPILED BY AILSA FERGUSON



# OHN HRYNIUK

# Gaining perspective on the Middle East

BY KELLY RANKIN

Watching the recent events in the Middle East play out in the mainstream media, one might be inclined to believe that these revolutionary movements have sprung up overnight.

"We have a lot of problems in the way the popular media frames and covers Islam and the Muslim world and the only cure to that, of course, is real study, real attempts to get out of one's cognitive biases," said Professor **Mohammad Fadel** of the Faculty of Law.

At U of T, Islam is studied from a vanety of disciplinary perspectives, with courses offered by faculty who are often connected to more than one department, and sometimes to more than one campus. Students may explore Islam through the lens of law, religion, culture or language, to mention just a few. For example, Fadel is also affiliated with religion and Near and Middle Eastern civilizations.

In addition to teaching the typical law school curriculum, Fadel offers a graduate seminar entitled Religion and the Liberal State: The Case of Islam. The seminar is about the role of religion in the liberal polity.

Another faculty member who crosses boundaries is Professor **Shafique Virani**, who teaches courses in Islamic thought and spintuality.

Virani divides his time between historical studies at U of T Mississauga and religion on the St. George campus. He has a large undergraduate research team, with 40 students from programs such as art, geography and religious studies.

Virani believes one way to raise the level of discourse is to embrace Internet technologies. He and his students are working on a project called the iBrary Online — a student driven portal for Islamic studies. "In this

area, we're at the cutting edge; nobody in the world is doing this," said Virani. "Digital humanities in Islamic studies here is unrivalled anywhere."

For those eager to study

Islam in depth, the Near and Middle Eastern civilizations (NMC) department provides a broad program that explores ancient and modern times, plus everything in-between. Its offerings also demonstrate the cultural diversity of Islamic societies and civilization. Professor Linda Northrup. chair of the department, notes that faculty with backgrounds in areas such as archeology, anthropology, history, languages and literature teach Islamic studies courses in the department.

"We're the only department in Canada that offers a comprehensive and integrated program," said Northrup. "It deals with everything from ancient history up to modern times and we are an interdisciplinary department."

This fall NMC will be offering a new course that will survey and consider current events in the Arab world in a comparative, historical context.

Northrup said she agreed with Professor **Mohamad Tavakoli-Targhi**, of historical studies at UTM and Near and Middle Eastern civilizations, who told *the Bulletin*, (http://uoft.me/r0), "You have to know the ancient history in order to understand the contemporary political debates."

Central to the understanding of Islam today is the ability to approach it from a variety of disciplines, which also encourages students to view it in a much broader context.

"I think the study of Islam in NMC is a very rich experience," said Northrup. "It's not just the study of Islam as a religion; it's the study of Islamic societies and civilization."



Professor Shafique Virani divides his tme between the St. George and Mississauga campuses.

### A BIG HAND FOR INVENTORS OF THE YEAR



The inaugural Inventor of the Year competition, organized by the Office of the Vice President Research, celebrated nine U of T faculty members on March 7 at a ceremony at the MaRS centre. Pictured, front row, from left: Prof. Paul Young (vice-president, research), Prof. Kumar Murty (mathematics), Prof. Ronald Baecker (computer science), Prof. Shana Kelley (pharmacy and medicine), Prof. Scott Tanner (chemistry), Prof. Yu Sun (mechanical and industrial engineering), Prof. Nick Koudas (computer science), Prof. Peter Lewis (assistant vice president, research), Nilesh Bansal (co-inventor with Koudas), and President David Naylor. Back row, from left: Aakash Sahney, Alex Levy, Kevin Tonon (Baecker's co-inventors), University Prof. Geoff Ozin (chemistry), Prof. Andrei Yudin (chemistry), Prof. Constantin Christopoulos (civil engineering). For the full story: http://www.news.utoronto.ca/campus-news/inventor-of-the-year-winners-list-2011.html

# U of T students come up big onstage

BY ANJUM NAYYAR

**Two students** from the joint Sheridan-UTM theatre and drama studies program brought home the top awards from the 19th annual University of Toronto Drama Festival Feb. 16 to 19.

The festival, which started in 1936 and was brought back 19 years ago, serves as a platform for students from all three U of T campuses to bring their stories and talents to the stage. This year's festival represented students from drama clubs and societies from Innis College, St. Michael's College, Trinity College, New College, Victoria College and the Mississauga Campus. U of T students presented 11 original one-act plays to compete for five coveted awards over four nights and were judged by William Davis of X-Files fame.

Second-year drama student **Benjamin Hayward** received the Robertson Davies Award for Best Play for the second year in a row and the Hart House Theatre Award for Best Performance. Second-year student **Fraser Woodside** earned an Award of Merit for Playwriting for his play *Piece*. Woodside also won the Robert Gill Award for Best Direction for his work on Andrew Di Rosa's play *Landslide*.

Hayward's award-winning play, called *Pathetic*, was about performance: when in your daily life do you start and stop performing and how much does the average person act?

"It's comforting to win these awards," said Hayward. "One of the fears you have in pursuing a career in theatre is that you're never really going to make a go of this. This is reassurance that maybe! could."

Hayward credits the program at U of T as one that has prepared him well.

"I think this program is probably the most successful in the

province at merging practical acting skills with academia. I like the fact that I can study actual acting while also being able to take a course in Russian history if I wanted to."

Woodside was delighted by the acclaim his play received.

"It's good to be recognized in that way because it was the first play I've ever written. To have someone like William B. Davis say, Yup, that's good, keep writing, that's a big boost for me."

"I'm very proud of them, they're very talented men and among the leaders in their class," said **Patrick Young**, artistic director of UTM's Theatre Erindale. "They are two of quite a few who set the standard in a very small talented group."

Both students see theatre in their futures. Hayward plans to pursue graduate school in acting while Woodside would like to pursue live theatre after graduation.

# Girl Guides benefit from engineering month

BY LIZ DO

**Who loves** engineering?" asked **Dawn Britton**, associate director of engineering outreach, to a room filled with 120 Girl Guides.

Hands enthusiastically shot up, with a resounding, "Me!"

On March 5, Girl Guides had the thrilling opportunity to visit the U of T campus, meet female engineering student mentors and learn, first-hand, about all the exciting facets of engineering.

To earn their engineering badge, the girls, aged 9 to 11, took part in a host of activities, including building roller coasters out of

insulation tubes and making colourful "slime"— all the while learning the science and engineering that goes into creating them.

"The kids definitely asked great questions. Some of them asked, Why do we need all these types of engineers? and Do you like engineering?" recalled **Brienne Kong Ting**, an industrial engineering student, who was one of the mentors. "The high level of interest in the engineering design activity that some girls had definitely shows their potential to become engineers in the future."

This was the first time the

Faculty of Applied Science and Engineering and the engineering outreach office had hosted Girl Guide Badge Day— an annual event that takes place in several universities across the province, thanks to the efforts of the Ontario Network of Women in Engineering (ONWIE).

"We do these events to inspire them and to get them excited about engineering, math and science. It's about having them see our undergraduates as role models so when they leave here, they can see themselves sitting in those chairs in those classrooms — as our students," said Britton.

MaRS Best Practices Series

# Social Innovation Series

Beyond Compliance to Innovation: The business case for accessibility

April 1st, 12 - 1:30 p.m.

Learn how you can turn accessibility into profitability.

Best (and Worst)
Practices of Social Finance

April 8th, 12 - 1:30 p.m.

Hear personal stories and interesting examples from Canada's emerging social finance marketplace.

Best Practices of Social Tech for Change

April 21st, 12 - 1:30 p.m.

Examine how organizations and social change-makers plug into social media and Web 2.0.

MaRS Centre 101 College St., Toronto

Registration is free but required. For more details and to register, please visit www.marsdd.com/bestpractices

# First elder-in-residence honoured

CONTINUED FROM PAGE 1 Now, she has received another award to enjoy with pride. On March 11, 14 aboriginal Canadians were recognized for their contributions in their communities across Canada and worldwide at the 18th annual National Aboriginal Achievement Awards (NAAA). McGregor was the recipient of the Lifetime Achievement Award, celebrated for providing invaluable leadership on governing boards at a number of agencies, including Native Child and Family Services, Nishnawbe Homes and Anduhyan Inc.

Since the establishment of the awards in 1994, more than 240 aboriginal men and women have been honoured for their outstanding career achievements in Canadian arts, medicine, business and community involvement.

McCregor was born in the Whitefish River First Nation community located on Birch Island in northern Ontario. At the age of 15 she moved to Toronto and began her career as a nanny. She eventually trained to be a nurse. After retiring from nursing in 1989, McGregor became well known throughout both the aboriginal and non-aboriginal communities for her dedication and commitment to volunteering. She said she always tried to instil that same dedication in students she came into contact with at U of T.

McGregor said she has fond memories of her time at U of T and great respect for the students that came to First Nations House.

"Students who attended the university when I was there brought something back to the university. They wanted our people to be known and some came back as professors.

"I think students should utilize what they have and learn how to apply it. I hope that I have inspired somebody to go further in their programs. Everybody has a role to play and if I've guided someone that's great."

See McGregor receive her award when the ceremony is broadcast nationally on Global TV and APTN on April 9.

## Former CFL stars to coach Blues football

continued from PAGE 1 an outstanding collegiate career at the University of Northern Illinois. He was named one of the captains in his senior year with the Huskies and voted the team's defensive MVP that season. Known as one of the hardest hitters in the league during his eight-year professional career, Carter played both outside linebacker and safety

and made four different stops (Toronto, Hamilton, Ottawa and Winnipeg) before officially retiring in 2008.

After a year as Toronto's defensive backs coach, Carter went on to guest coach with the Hamilton Tiger Cats and became the defensive co-ordinator of the OVFL's Etobicoke Eagles in 2010. He helped the squad through the playoff run

that ended with a loss in the Wettges regional championship game.

These hires are a part of an interim coaching strategy for 2011 following the recent announcement of head coach Greg DeLaval's departure from the University of Toronto. For more information about Blues football, visit www.varsityblues.ca/football.

THE UNIVERSITY OF TORONTO ALUMNI ASSOCIATION INVITES YOU TO THE

# 2011 Awards of excellence

#### CHANCELLOR'S AWARD

Emerging Leader category:

Helen Bright Faculty of Applied Science and Engineering

Influential Leader category:

Catherine Gagne Faculty of Applied Science and Engineering
Cheryl Shook Woodsworth College, Faculty of Arts and Science

FACULTY AWARD

Cynthia Goh Department of Chemistry, Faculty of Arts and Science

JOAN E. FOLEY QUALITY OF STUDENT EXPERIENCE AWARD

Karen Reid

Department of Computer Science,

Faculty of Arts and Science

NORTHROP FRYE AWARD

Divisional category:

Vic One Victoria College, Faculty of Arts and Science

#### CAROLYN TUOHY IMPACT ON PUBLIC POLICY AWARD

Anthony Doob Centre for Criminology and Sociolegal Studies,

Faculty of Arts and Science

ADEL S. SEDRA DISTINGUISHED GRADUATE AWARD

Finalists:

Jovana Kaludjerovic Department of Nutritional Sciences, Faculty of Medicine

Gary Pluim Ontario Institute for Studies in Education Mubdi Rahman Department of Astronomy and Astrophysics,

Faculty of Arts and Science

JOHN H. MOSS SCHOLARSHIP

Scholar:

Zannah Matson Innis College, Faculty of Arts and Science

Finalists:

Illya Nokhrin Victoria College, Faculty of Arts and Science
Jong Park Victoria College, Faculty of Arts and Science
Matthew Purser Victoria College, Faculty of Arts and Science
Belle Song Victoria College, Faculty of Arts and Science

WEDNESDAY, APRIL 6, 2011 • GREAT HALL, HART HOUSE 5:30 PM AWARDS CEREMONY • 6:30 PM RECEPTION BUSINESS ATTIRE

To RSVP (acceptances only) go at alumni.utoronto.ca/awardsofexcellence, or email kim.graham@utoronto.ca or call 1-888-738-8876 by March 29, 2011.

# Singing to babies provides emotional connection

BY ANJUM NAYYAR

Even if you couldn't hold a tune if you're life depended on it, singing to your baby will not only benefit your child but seeing your baby while performing will help make your performance more authentic. That's the gospel according to U of T Mississauga professor Sandra Trehub of psychology, whose current research shows that visual feedback from infants influences the mothers' expressiveness and hence their emotional connection with their children.

In a research study looking at 50 six-month-old infants from various ethnic backgrounds, Trehub found that mothers who were face to face

"INTERACTION REALLY
IS A TWO-WAY STREET.
THE BABY INFLUENCES
WHAT THE MOTHER
DOES AND THE MOTHER
NEEDS CUES FROM THE
BABY TO KEEP HER
INTERACTIONS FINELY
TUNED."

PROFESSOR SANDRA TREHUB

with their babies while singing and talking were more expressive than when they couldn't see their babies.

"We recorded mothers while talking and singing to their infants in two conditions: when both were face to face and when an opaque curtain separated mother and baby," said Trehub. "When the babies were still present but merely out of view [behind the curtain], mothers spoke and sang less expressively. In short, visual feedback from infants influenced the emotional quality of mothers' speech and singing."

Trehub said that across cultures, mothers are highly invested in the care of their infants and maternal vocal interactions play an important role in caregiving. "As humans we're incredibly social beings and talking and singing expressively or lovingly are ways of sharing feelings with babies who can't understand the words they hear. Previous research showed that maternal vocalizations were more expressive when babies were present than when they were absent. Our current research reveals that mothers' voices sound warmer and more loving when they are face to face



Professor Sandra Trehub of psychology and baby Randy, one of the subjects in her study.

with babies rather than visually separated. So that tells us that seeing the baby has an impact on mothers' emotions, which makes their talking or singing more expressive than otherwise."

Trehub's research team also looked at the visual gestures mothers make while they speak or sing to babies. "In fact, mothers moved, smiled and gestured more while they sang than while they spoke. They were more animated vocally when they talked and

more animated visually when they sang. Most mothers smiled almost continuously while they sang."

When other infants were shown silent videos of mothers singing and talking, they found the videos of singing more engaging than the videos of talking. A study of babies' responses to audioonly versions of mothers singing and talking is currently in progress.

"Having their babies within view brings out a rich, gushy-

performance from mothers," said Trehub. "Interaction really is a two-way street. The baby influences what the mother does and the mother needs cues from the baby to keep her interactions finely tuned. Maternal performances do what commercial recordings can't do. The baby gets a live performance, a loving performer, a familiar voice, lots of smiles, touching and more."

For more information visit: www.utm.utoronto.ca/7407.0.html.

# Women feel guilty about dealing with work issues at home

BY APRIL KEMICK

Communication technologies that help people stay connected to the workplace are often seen as solutions to balancing work and family life. A new study, however, suggests there may be a "dark side" to the use of these technologies for workers' health — and these effects seem to differ for women and men.

Using data from a national survey of American workers, U of T researchers asked study participants how often they

were contacted outside the workplace by phone, email or text about work-related matters. They found that women who were contacted frequently by supervisors, co-workers or clients reported higher levels of psychological distress. In contrast, men who received frequent work-related contact outside of normal work hours were less affected by it.

"Initially, we thought women were more distressed by frequent work contact because it interfered with their family responsibilities more so than men," said lead author **Paul Glavin**, a PhD candidate at U of T. "However, this wasn't the case. We found that women are able to juggle their work and family lives just as well as men but they feel more guilty as a result of being contacted. This guilt seems to be at the heart of their distress."

The findings show that many women feel guilty dealing with work issues at home even when the work-related contact doesn't interfere with their family lives. Men, on the other hand, are less

likely to experience guilt when responding to work-related issues at home.

Co-author **Scott Schieman** said the findings suggest that men and women may still encounter different expectations over the boundaries separating work and family life — and these different expectations may have unique emotional consequences.

"Guilt seems to play a pivotal role in distinguishing women's work-family experiences from men's," said Schieman, sociology professor and lead investigator of the larger study that funded this research.

"While women have increasingly taken on a central role as economic providers in today's dual-earner households, strong cultural norms may still shape ideas about family responsibilities. These forces may lead some women to question or negatively evaluate their family role performance when they're trying to navigate work issues at home."

The study appears in the March issue of the *Journal of Health and Social Behavior*.

#### PUBLIC BUDDHIST PRAYER SERVICE FOR VICTIMS OF EARTHQUAKE AND TSUNAMI IN JAPAN

The service will be conducted in all three Buddhist traditions Donations, in cash or cheques, will be collected for the Canadian Red Cross to support relief efforts in Japan.

SATURDAY, APRIL 2, 2011 2:00 P.M.

Main Activity Hall, Multi-Faith Centre for Spiritual Study and Practice, U of T 569 Spadina Ave.

http://www.multifaith.utoronto.ca/ Contact-Us--Book-Space. htm#Directions

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#### SPECIAL LECTURE AND PANEL

Teaching People The Way They Learn: What Education Can Learn From Cognitive Development

> with PROFESSOR ALISON GOPNIK, University of California, Berkeley

Panel: Professors Michel Ferrari and David Haley Moderated by Steve Paikin Vic 8T1

> Tuesday, April 5, 2011 7:30 p.m. Isabel Bader Theatre 93 Charles Street West

> > Reception to follow

Call 416-585-4500 or e-mail vic.alumni@utoronto.ca for tickets.

# 2011 Awards of excellen

**THE FACULTY AWARD** is given to a member of the teaching staff who consistently demonstrates excellence in teaching and research endeavours.

# **Cynthia Goh**Department of Chemistry, Faculty of Arts and Science



at U of T in 1990, Professor Cynthia Goh has pursued a varied and energetic career as a scholar, teacher and academic entrepreneur. She has more than 70 refereed publications to

Since her arrival

her credit. Among Goh's current research interests are nanoparticles and water splitting, a technology crucial to the development of hydrogen-based energy systems, and control of protein assembly and tissue construction, a field of immense promise in medicine. It is Goh's innovative work in the area of scientific entrepreneurship, however, that makes her career so unusual. She is widely noted for having developed the seminar course Entrepreneurship 101, now offered to thousands at the MaRS Discovery District, and Techno 2010, a three-week summer intensive training leading to the formation of new tech companies. Vive Nano is among the successful companies started by students and mentored by Goh. Many graduate students and entrepreneurs have cited Goh's individual mentoring as a decisive influence on their ideas and career trajectories.

THE CAROLYN TUOHY IMPACT ON PUBLIC POLICY AWARD is awarded to a faculty member who has made an impact both within and beyond academic circles, at national and international levels.

#### **Anthony Doob**

Centre for Criminology and Sociolegal Studies, Faculty of Arts and Science

Few scholars have had as much influence on issues of pressing public concern as Professor Anthony Doob. He joined U of T in 1968 and was the third director of the Centre of Criminology from 1979 to 1989. Since the early 1980s, his appointment has been shared between criminology and Woodsworth College, where he teaches in Woodsworth's undergraduate criminology

program. He has published extensively on such topics as sentencing, juvenile justice, public understanding of the criminal justice system and the develop-



ment of criminal justice policy in Canada. As a member of the Canadian Sentencing Commission in the mid-1980s, Doob was part of a group that recommended an integrated approach to sentencing in Canada — an area of the criminal justice system that has been the source of controversy for decades. He has also appeared numerous times before parliamentary committees and other government bodies and as an expert witness in criminal cases.

**THE NORTHROP FRYE AWARD** (**DEPARTMENTAL**) recognizes distinguished achievements connected to teaching and research at U of T.

#### Vic One

Victoria College, Faculty of Arts and Science

Vic One is a program designed for exceptional and specially selected arts and science students at Victoria College. The program is currently divided into four streams of study, each named after a distinguished figure in the history of Victoria College: Northrop Frye (humanities), Lester Pearson (social sciences and history), Egerton Ryerson (education) and Augusta Stowe-Gullen (sciences). These streams feature small group seminars, lectures, tutorials and informal conversation and are enriched by weekly plenary sessions with guest professors, visiting artists, writers, ambassadors and other public figures. A fifth stream, the Norman Jewison Stream for Imagination and the Arts, inspired by renowned filmmaker and Victoria University's 12th chancellor, will be added to the program in September 2011.

One of the goals of Vic One is to give students a small-class learning experience and foster a strong sense of community. This introduction to university study provides an excellent foundation for further work by encouraging the development of critical thinking, research and writing skills. Vic One is now recognized as a premier program for first-year students. It is being used as a template by other colleges and universities for programs reflecting their own traditions.

### THE JOAN E. FOLEY QUALITY OF STUDENT EXPERIENCE AWARD is

presented annually to a student, alumnus/a, faculty or administrative staff member who has made a distinctive and lasting contribution to enhancing the quality of the undergraduate or graduate student experience at the University of Toronto.

#### Karen Reid

Department of Computer Science

Since her arrival on campus as a graduate student in 1992, Karen Reid has impressed people with her engagement, enthusiasm and clarity of thought. As a lecturer (2001) then senior lecturer (2007) in the Department of Computer Science, Reid has demonstrated a gift for teaching



undergraduates in all four years and leaving them with a sense of personal accomplishment. Reid has extended her talent beyond the traditional classroom set-

ting. She has worked with more than 60 undergraduates in research and development projects, often with the support of NSERC Undergraduate Student Research Awards or the internal U of T Information Technology Courseware Development Fund. These projects, which link pure course learning with practical application, greatly enhance student confidence in a competitive field that demands initiative.

**THE CHANCELLOR'S AWARD (EMERGING LEADER)** recognizes an individual for exceptional leadership in his or her role in advancing the university's mission.

#### **Helen Bright**

Information analyst, admissions information, Faculty of Applied Science and Engineering

Since her arrival at the Faculty of Applied

Science and Engineering in 1999, Helen Bright has proven herself to be a resourceful and dedicated admissions specialist. While fulfilling the traditional roles



of counsellor and administrator with distinction, Bright has introduced many improvements to database systems and shown leadership in the vital movement away from paper and towards electronic records. Students, faculty and administrations have all benefited from the enhanced efficiencies and reduced delay. It was as associate registrar, however, from 2006, that Bright made her gifts fully apparent, working with a colleague to develop the engineering student portfolio for recording extracurricular activities, which are often a decisive consideration in the distribution of scholarships and awards. The result has been an increase in competitive applications resulting in faculty and staff being more easily able to identify suitable candidates. The new student profile form has likewise made extracurricular activity easier to record and recognize.

# THE CHANCELLOR'S AWARD (INFLUENTIAL LEADER) recognizes an

(INFLUEN ITAL LEADER) recognizes an individual for exceptional leadership in his or her role in advancing the university's mission.

#### **Catherine Gagne**

Chief administrative officer, Faculty of Ap Science and Engineering

Catherine Gagne has shown creativity breadth and dedication in her 12 years chief administrative officer of the Fact of Applied Science and Engineering. T year marks her 20th anniversary work at U of T. Her work ethic and perceptionature have led her to serve on many cal boards and committees and her colleagues often seek her advice. Gagne her



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One clear measure of her interest in st her introduction of the engineering st awards program in 2009. Gagne also e lished an annual professional develop day for all engineering staff for which received a Stepping Up Award in 2006

THE CHANCELLOR'S AWARD (INFLUENTIAL LEADER) recognizes individual for exceptional leadership in her role in advancing the university's mis

#### Cheryl Shook

Registrar, Woodsworth College, Faculty of and Science

A University of Toronto administrator since 1983, Cheryl Shook was named

registrar of
Woodsworth
College in 2003.
Shook has
proven herself a
tireless advocate
of students of
all types and an
excellent mentor to her team
in the registrar's
office. She has
a particular



interest in supporting students who a at U of T from alternative pathways. S is one of the driving forces behind the Millie Rotman Shime Academic Bridg Program, which offers students aged 2 older an opportunity to qualify for ad sion to the Faculty of Arts and Science Another unique program organized ir large measure by Shook is the joint pr gram with Seneca College. Shook was face of U of T to the initial 50 Senecal arts students during the pilot project a continues to support incoming studer All of these qualities are in addition to excellent administrative skills, a clear sense of the structure and procedures friendly, approachable personal style.

# THE U OF T ALUMNI ASSOCIATION CELEBRATES FACULTY, STAFF AND STUDENTS FOR THEIR SCHOLARSHIP AND LEADERSHIP.

# Student Awards

**THE JOHN H. MOSS SCHOLARSHIP** recognizes a strong arts and science student who demonstrates academic and extracurricular leadership and plans to pursue graduate studies.

ANDREW JOHNSON

#### Zannah Mae Matson

Innis College, Faculty of Arts and Science Zannah Mae Matson is pursuing an honours bachelor of arts degree at Innis College with specialist qualification in peace and conflict studies, a major in environment and society and a minor in urban studies. Her exceptional academic record has led to a lengthy list of scholarships and awards from both University of Toronto and national sources. Despite her extraordinary scholarly performance, Matson has been extensively involved in volunteer work. She has volunteered at the U of T sustainability office and was a U of T delegate to the Copenhagen Climate Summit in 2009.

She was president of the U of T Environmental Resource Network while working as vice-president of the Urban Studies Students Union. Her record of involvement includes official work for many ad-hoc justice committees, such as Students Taking Action Now: Darfur. In January Matson worked as co-director of the 2011 Peace and Conflict Studies conference on the theme of Mapping Local Landscapes: Community Approaches to Peace.

#### JOHN H. MOSS SCHOLARSHIP, UTAA SCHOLARS

#### Illya Nohkrin

Victoria College, Faculty of Arts and Science

A member of the dean's list for the last two years, Illya Nohkrin has also won an In-Course Scholarship, the John M. Coles Prize and the Charles Bruce Sissons Scholarship from Victoria College. He is studying English and anthropology, two disciplines relevant to his particular interest in dialect in post-colonial literature. Among his extracurricular activities at U of T was the creation of the *Undergraduate Journal of Anthropology and Archaeology*.

#### Jong Park

Victoria College, Faculty of Arts and Science

Jong Park has shown affinity for both advanced laboratory work and humanitarian studies abroad during his career as a Victoria College undergraduate. He has worked on neuroscience research teams at the Hospital for Sick Children and undertaken an independent studies project in developmental biology at the Samuel Lunenfeld Research Institute. Park's compassionate interest in global health is demonstrated by his summer abroad in Kenya and volunteer work in Ghana, as well as work at the Sunnybrook and Princess Margaret Hospitals. A skilled communicator, Park is the coeditor in chief of the *Journal of Undergraduate Life Sciences*.

#### **Matthew Purser**

Victoria College, Faculty of Arts and Science

A physiology student with multiple abstract publications in *Endocrine Reviews*, Matthew Purser has won many academic prizes, including the Gordon Cressy Student Leadership Award and an NSERC Undergraduate Student Research Award. He has spent two years doing research in the lab of Dr. Denise Belsham. While maintaining an excellent academic record Purser volunteers at Mt. Sinai Hospital and works as an undergraduate representative on the Academic Board of Governing Council.

#### Belle Son

Victoria College, Faculty of Arts and Science

Belle Song is pursuing an honours BSc with a specialist in pharmacology and a minor in English. Her many academic honours include a research award from the National University of Ireland and the Oxford University Press Achievements in Chemistry Prize. Song has worked as chair of the Student Refugee Program for Victoria College and co-president of Students Against Hunger. Holder of an ARCT diploma in piano performance and theory from the Royal Conservatory of Music, Song has put her musical skills to work as a volunteer at the Princess Margaret Hospital Cancer Lodge.

**ADEL S. SEDRA UTAA GRADUATE SCHOLARS** have demonstrated academic and extracurricular leadership.

#### Jovana Kaludjerovic

Department of Nutritional Sciences, Faculty of Medicine

PhD student Jovana Kaludjerovic studies the effect of neonatal exposure to soy isoflavones on adult bone metabolism and the potential of soy-based infant formula to reduce the risk of osteoporosis. Two of the five refereed publications on which she has worked have been selected for press releases by the journals in which they appeared. Kaludjerovic is co-president of the Nutritional Sciences Graduate Student Association and student representative on the strategic planning committee of the Department of Nutritional Sciences. She works as a volunteer with the Ronald McDonald House to organize family dinners at the Hospital for Sick Children.

#### **Gary Pluim**

Department of Curriculum, Teaching and Learning, Ontario Institute for Studies in Education

Gary Pluim is completing his doctoral dissertation on citizen participation in Canadian aid to education in Haiti. His career objective is to combine the scholarly analysis of international aid with active service to NGOs and instruction in initial teacher education. "Working through concepts of multiculturalism, poverty and globalization with Canada's future leaders," he writes, "may inspire more visionary approaches to international education." A former public school teacher and international project manager, Pluim has won the Muriel Fung Student Appreciation Award at OISE and earned an Ontario Graduate Scholarship over three consecutive years. He is a graduate student representative for the OISE Faculty Council and a volunteer human rights monitor with the Canadian Civil Liberties Organization.

#### Mubdi Rahman

Department of Astronomy and Astrophysics, Faculty of Arts and Science

Mubdi Rahman is a PhD student in the Department of Astronomy and Astrophysics with a special interest in massive star-forming complexes in the Milky Way Galaxy. Two papers on which he worked were published in *The Astrophysical Journal* in 2010. Rahman has won the Mary and Ron Martin Graduate Fellowship in Astrophysics and the Gordon Cressy Student Leadership Award. His cutting-edge work in star formation is the perfect complement to his dedication to public scientific literacy. Rahman has given talks in secondary schools and worked for years as a judge in science fairs. He has been a driving force behind the Science Rendezvous series of public-awareness events and is also president of the Graduate Astronomy Students Association.

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Date: April 7th, 2011

Time: 3:00 pm

Location: Medical Sciences Bldg. Room 2158 (JJR Macleod Auditorium)

Speaker: Bruce M. Spiegelman, PhD

Stanley J. Korsmeyer Professor of Cell Biology and Medicine Dana-Farber Cancer Institute, Harvard Medical School

Title: "Transcription Control of Adipogenesis in Health and Disease"



#### **ALEXANDER LECTURES**

#### The Politics of Race and Sexuality

#### Dwight A. McBride

Daniel Hale Williams Professor of African American Studies, **English & Performance Studies** Dean of The Graduate School & Associate Provost for Graduate Education Northwestern University

> TUESDAY, MARCH 29 Baldwin and the New Black Studies

WEDNESDAY, MARCH 30 The Perils of Black Leadership

THURSDAY, MARCH 31 Toni Morrison, Intellectual

FRIDAY, APRIL 1 Race, Faith and Sexuality

4:30 p.m., Room 140, University College 15 King's College Circle, University of Toronto

Members of the faculty, staff, students and the public are cordially invited. No registration necessary. Call (416) 978-3160.

# U of T researchers create organic nanoparticle to treat cancer

BY SOMMER ELLIS

A team of scientists including researchers from the University of Toronto and Princess Margaret Hospital have created an organic nanoparticle that is completely non-toxic, biodegradable and nimble in the way it uses light and heat to treat cancer and deliver drugs. (A nanoparticle is a minute molecule with novel properties.)

The findings, published online in Nature Materials, are significant because unlike other nanoparticles, the new nanoparticle has a unique and versatile structure that could potentially change the way tumours are treated, said Professor Gang Zheng of medical biophysics, the Institute of Biomaterials and Biomedical Engineering (IBBME) and

Princess Margaret Hospital, principal investigator of the study.

"In the lab, we combined two naturally occurring molecules (chlorophyll and lipid) to create a unique nanoparticle that shows promise for numerous diverse light-based (biophotonic) applications. The structure of the nanoparticle, which is like a miniature and colourful water balloon, means it can also be filled with drugs to treat the tumour it is targeting," Zheng said.

It works this way, explained first author Jonathan Lovell, a doctoral student at IBBME and the Ontario Cancer Institute at Princess Margaret: "Photothermal therapy uses light and heat to destroy tumours. With the nanoparticle's ability to absorb so much light and accumulate in tumours, a laser can rapidly

heat the tumour to a temperature of 60 degrees and destroy it. The nanoparticle can also be used for photoacoustic imaging, which combines light and sound to produce a very high-resolution image that can be used to find and target tumours." He added that once the nanoparticle hits its tumour target, it becomes fluorescent to signal "mission accomplished."

"There are many nanoparticles out there, but this one is the complete package, a kind of one-stop shopping for various types of cancer imaging and treatment options that can now be mixed and matched in ways previously unimaginable. The unprecedented safety of this nanoparticle in the body is the icing on the cake. We are excited by the possibilities for its use in the clinic," said Zheng.

# Record number of students apply to engineering

BY ELIZABETH RAYMER

A record number of prospective students have applied for undergraduate admission to the Faculty of Applied Science and Engineering for the 2011-2012 academic year, with total applications up 12.5 per cent from the previous year. And nearly half of all applicants made the University of Toronto their first choice among engineering schools.

As of March 15, 8,631 applications for 1,150 places had been received for fall 2011 admission, which marks an all-time historic record.

The number of applicants in Ontario who made U of T engineering their first choice was up 18 per cent; there was also an increase of 16.9 per cent for students from outside Ontario. Applications were received from every province and the Yukon.

International applicants make up 27.2 per cent of the pool this year, an increase of 23 per cent over last year. Applications from women surged 17.2 per cent to an unprecedented 1,757.

The incoming Class of 2015 at engineering promises to be an exceptional and highachieving group. This year,

applicants were asked the following supplementary questions to complement the traditional mark-based admission process:

- What has inspired you to pursue an engineering degree and why would you like to study at the University of Toronto?
- · What skills have you developed through your extracurricular experiences that will support your future success as both a student and an engineer?

The word prestigious came up again and again in response to why U of T was the students' choice for engineering.

### THE H.L. WELSH LECTURES IN PHYSICS 2011

given by

#### **DEBORAH JIN**

Professor of Physics, JILA/University of Colorado

#### Public Lecture: Fun with Ultracold Atoms

Wednesday April 13th, 7:00 p.m. Earth Sciences Centre, ES 1050, 33 Willcocks Street

#### Physics Colloquium: Ultracold Polar Molecules

Thursday, April 14th, 4:00 p.m. Physics Department, MP 102, 60 St. George Street

Deborah S. Jin is a NIST Fellow and an Adjoint Professor of Physics at the University of Colorado. She graduated from Princeton University in 1990 and received her Ph.D. in physics from the University of Chicago in 1995. Her current experimental research at JILA includes studies of ultra-cold Fermi gases and the BCS-BEC crossover, ultra-cold polar molecules, strongly interacting Bose-Einstein condensates, and Bose-Fermi gas mixtures. In 2003, Dr. Jin's team at JILA made the first Fermionic condensate. She won the prestigious MacArthur Fellowship "genius grant" in 2003, and she was recognized by Scientific American as "Research Leader of the Year" for 2004. She is a Fellow of the National Academy of Sciences, the American Association for the Advancement of Science, and the American Physical Society. Other honors include the Benjamin Franklin Medal in Physics, and Sigma Xi's William Proctor Prize for Scientific Achievement.

Sponsored by the Department of Physics. For further information, call (416) 978-7135, e-mail: iyer@physics.utoronto.ca or visit http://www.physics.utoronto.ca/welsh

### HE SAID SHE SAID

# What is .... Blue about Watson?

BY CAZ ZYVATKAUSKAS

Why did I hate Watson so much— that slick supercomputer programmed to beat human contestants on the television game show Jeopardy?

There wasn't really much to criticize— Watson was a clean, contemporary and clever contestant. He even had some charming idiosyncratic betting habitswagering comical amounts such as \$1,246 and \$6,435. Consequently, one might have expected him to be endearing. But no, I felt my eyes narrowing and my lips curling into a thin snarl the longer he dominated the game. Was this good oldfashioned human resentment? Remember what Deep Blue did to Kasparov at chess back in 1997?

I have played Jeopardy many times and lost thousands if not millions of "dollars" to human contestants both banal and brilliant. My losses know no bounds. I am something of a reverse Watson. But surely former champions extraordinare Ken Jennings and Brad Rutter are not.

In the beginning of the show it appeared these clever humans might have a chance. However, within minutes the shrill of Watson's buzzer and indubitable answers caused attention to shift away from the outright sport of the event.

As Jennings and Rutter were beaten repeatedly by the superior gamer one could detect their emerging frustration and annoyance with their parts in this "drama." Yet, seemingly, there was no reason for such ire.

Watson was a good computer. His sponsor, IBM, engaged much airtime explaining his creation, excellent pedigree and many advantageous uses. Who dared find fault with a machine that could one day analyze and diagnose patients in need of quick treatments or assist any assortment of scientific prognosticators with invaluable calculations, all in the name of making the world a better place — even if it was turning an intellectual frolic into a rout.

As the final strains of the Jeopardy theme song melted into the obnoxious promotions for upcoming television shows, I realized the true source of my ambivalence: commercials.

I don't hate computers. I don't hate Watson. What annoyed me was the commercial— the unvarying message that the production of such a computer was not about the frivolous game but about the endless serious possibilities. If so, shouldn't it get on doing what it was going to do and leave us to play in our own backward human way? Why subject viewers to a week of his presence, turning the

show into a giant infomercial for IBM? Isn't that the purpose of commercial breaks?

If the event could be restaged I would have recommended a greater variety of sponsors during the week's run. Maybe a brewery. How much more appealing to the average viewer! However, then perhaps it would not have resulted in a computer — but a fridge. But what a fridge — fully-stocked, knowing your every drink or food desire — at least more than 80 per cent of the time. One wonders.

There was a lot of commentary in the days following Watson's trouncing of the humans, both good and bad, all of it an extension of the enormous infomercial for the computer. The sport of pitting computer against man was revealed as the sport of advertising.

As these thoughts percolated my hard drive chugged away like an old farm tractor. No, really, I was resentful— not so much about that company making sport of two humans on national television— but at Watson's genius compared with my own inadequate computer. Now where's the sport in that?

Caz Zyvatkauskas is a U of T history student who doubles as designer of the Bulletin. She shares this space with Paul Fraumeni.



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2011 Leighton G. McCarthy Memorial Lecture
with guest speaker

Alison Gopnik

Child Study Center, University of California at Berkeley author of The Philosophical Baby

"How do children learn from others: Imitation, observation and learning how the world works"

Thursday, April 7th, 2011
6:30 pm - 8:00 pm
Ontario Institute for Studies in Education (OISE)
252 Bloor St. West, Ground Floor Library

Please reserve your seat(s) for this free, public event by calling Jeannie Tam at 416-934-4526, or by email at jeannie.tam@utoronto.ca

This is a special 85th Anniversary Event presented by OISE's Dr. Eric Jackman Institute of Child Study in honour of its founding grant from the Laura Spelman Rockefeller Fund in 1925-26, and recognizing its sister institution, the Child Study Center at the University of California at Berkeley. Approximately, eighty-five years ago, six child study centres were seeded by the Laura Spelman Rockefeller Fund, for the interdisciplinary study of children's development and learning, and established at Columbia University, University of California at Berkeley, University of lowa, University of Minnesota, University of Toronto, and Yale University.





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2011 F.E.L. PRIESTLEY MEMORIAL LECTURES IN THE HISTORY OF IDEAS

From Freud to Prozac: American Psychiatry in the Twentieth Century

#### **Andrew Scull**

Distinguished Professor of Sociology and Science Studies University of California, San Diego

April 11, 12 & 13 4:30 p.m., Room 140, University College 15 King's College Circle, University of Toronto

Monday, April 11
Psyche and Soma: Competing Responses to a Crisis in Psychiatric Legitimacy

Tuesday, April 12
Total War and the Triumph of Psychoanalysis

Wednesday, April 13
The Neo-Kraepelinian Turn: The Psychopharmacological
Revolution and the Re-Biologization of Psychiatry

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rentals-paris.com. Beautiful Paris fractional ownership properties, www. paris-fractional-ownership.com; Paris apartment hunting services: www. paris-aparts.com; 516-874-0474 or coopergl@gmail.com

#### **Health Services**

REGISTERED MASSAGE THERAPY. For relief of muscle tension, chronic pains and stress. Treatments are part of your extended health care plan. 360 Bloor St. West, Suite 504 (Bloor/Spadina). For an appointment call Mindy Hsu, B.A., R.M.T. 416-944-1312.

Feeling anxious, stressed or depressed? Relationship or self-esteem concerns? Want someone to talk with, to help sort things out? Dr. Ellen Greenberg, Psychologist, Bloor & Avenue Road or Eglinton West Subway, 416-944-3799. Covered by extended health.

Dr. Neil Pilkington (Psychologist). Assessment and individual, couples and group cognitive-behaviour therapy for: anxiety/phobias, depression/low self-esteem, stress and anger management, couples issues and sexual identity/orientation concerns. Staff/faculty healthcare benefits provide full coverage. Morning, afternoon and evening appointments. Downtown/TTC. 416-977-5666. Email dr.neil.pilkington@rogers.com

Psychotherapy for personal and relationship issues. Individual, group and couple therapy. U of T extended health plan provides coverage. For a consultation call Dr. Heather A. White, Psychologist, 416-535-9432, 140 Albany Avenue (Bathurst/Bloor). drhwhite@rogers.com

Evelyn Sommers, PhD, Psychologist, provides psychotherapy and counselling for individuals and couples from age 17. Covered under U of T benefits. Yonge/Bloor, Visit www.ekslibris.ca; call 416-413-1098.

Individual psychotherapy for adults. Evening hours available. Extended benefits coverage for U of T staff. Dr. Paula Gardner, Registered Psychologist, 114 Maitland St. (Wellesley and Jarvis). 416-570-2957.

Psychoanalysis & psychoanalytic psychotherapy for adolescents, adults, couples. U of T extended health benefits provide coverage. Dr. Klaus Wiedermann, Registered Psychologist, 1033 Bay St., ste. 204, tel: 416-962-6671.

Dr. Cindy Wahler, Registered Psychologist. Yonge/St. Clair area. Individual and couple psychotherapy. Depression, relationship difficulties, women's issues, health issues, selfesteem. U of T extended healthcare plan covers psychological services. 416-961-0899. cwahler@sympatico.ca

Sam Minsky, PhD (Registered Psychologist). Individual and couple psychotherapy and counselling covered under U of T extended health plan. Close to downtown campus. 647-209-9516. sam.minsky@sympatico.ca

#### Miscellany

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#### LECTURES

Baldwin and the New Black Studies Tuesday, March 29

Prof. Dwight McBride, Northwestern University; first of four Alexander lectures on The Politics of Race and Sexuality. 140 University College. 4:30 p.m. University College

Hives of Literacy: Reading Thomas Gray's *Confessions of Nat Turner* in the Antebellum Public Sphere. Wednesday, March 30

Alpen Razi, doctoral candidate, English. 208N Munk School of Global Affairs. 4 p.m. Study of the United States

The Perils of Black Leadership.

Wednesday, March 30 Prof. Dwight McBride, Northwestern University; second of four Alexander lectures on The Politics of Race and Sexuality. 140 University College. 4:30 p.m. University College

Toni Morrison, Intellectual. Thursday, March 31

Prof. Dwight McBride, Northwestern University; third of four Alexander lectures on The Politics of Race and Sexuality. 140 University College. 4:30 p.m. University College

The Shock of the Global: The United States and the Origins of Globalization. Friday, April 1

Prof. Odd Arne Westad, London School of Economics & Political Science. 208N Munk School of Global Affairs 2 to 4 p.m. Study of the United States

Race, Faith and Sexuality. Friday, April 1

Prof. Dwight McBride, Northwestern University; final Alexander lecture on The Politics of Race and Sexuality. 140 University College. 4:30 p.m. University College

Tajikistan and the IMF: Lessons for Development Policies. Monday, April 4

Luc Moers, visiting scholar, University of Guelph. 108N Munk School of Global Affairs. Noon to 2 p.m. Registration: webapp.mcis.utoronto.ca/Events.aspx. European, Russian & Eurasian Studies and Central Asia Program

Cellular-Scale Hydrodynamics: From Red Blood Cells to **Bacterial Streamers.** Wednesday, April 6

Prof. Howard Stone, Princeton University; Lectures at the Leading Edge series. 116 Wallberg Building. 12:30 p.m. Chemical Engineering & Applied Science

Free Labour, Free Trade: Coolies, Opium and the Intimacies of Four Continents. Thursday, April 7

Prof. Lisa Lowe, University of California, San Diego. 208N Munk School for Global Affairs. 2 to 4 p.m. Study of the United States

**How Do Children** Learn From Others: Imitation, Observation and Learning How the World Works.

**Thursday, April 7**Prof. Alison Gopnik, University of California at Berkeley; Leighton G. McCarthy memorial lecture. Ground floor, OISE, 252 Bloor St. W. 6:30 to 8 p.m. Dr. Eric Jackman Institute of Child Study

Native Chemical Ligation. Friday, April 8

Scripps Research Institute; Eli Lilly lecture. Davenport seminar rooms, Lash Miller Chemical Laboratories. 10 a.m. Chemistry

Law and Justice in the Republic of Love: Awara's Constitutional Amendment. Monday, April 11

Prof. Lawrence Liang, Columbia University; B.N. Pandley memorial lecture. 208N Munk School of Global Affairs. 4 to 6 p.m. Registration: webapp.mcis.utoronto.ca/Events.aspx. South Asian Studies and Asian Institute

Psyche and Soma: Competing Responses to a Crisis in Psychiatric Legitimacy. Monday, April 11 Prof. Andrew Scull, University of

California, San Diego; first of three F.E.L.Priestly memorial lectures in

the history of ideas on From Freud to Prozac: American Psychiatry in the 20th Century. 140 University College. 4:30 p.m. University College.

Total War and the Triumph of Psychoanalysis. Tuesday, April 12

Prof. Andrew Scull, University of California, San Diego; second of three F.E.L.Priestly memorial lectures in the history of ideas on From Freud to Prozac: American Psychiatry in the 20th Century. 140 University College. 4:30 p.m. University College.

Leaders and Losers: A Journalist's Perspective. Wednesday, April 13 Joe Schlesinger, CBC news reporter;

Academy for Lifelong Learning spring talks. Innis College Town Hall. 9:45 a.m. coffee, speaker 10:20 a.m. Free to academy members, non-members \$7.

Academy for Lifelong Learning

The Neo-Kraepelinian Turn: the Psychopharmacological Revolution and the Re-Biologization of Psychiatry. Wednesday, April 13 Prof. Andrew Scull, University of

California, San Diego; final F.E.L.Priestly memorial lecture in the history of ideas on From Freud to Prozac: American Psychiatry in the 20th Century. 140 University College. 4:30 p.m. *University* College.

#### COLLOQUIA

The Choreography
of a Protein's Dance:
Exploration by NMR,
Crystallography, Computation
and Single Molecule Fluorescence Transfer. Friday, April 1 Prof. Dorothee Kern, Brandeis

University. 158 Lash Miller Chemical Laboratories. 10 a.m. Chemistry

#### **SEMINARS**

Soviet Jews in World War II. Tuesday, March 29

Prof. Oleg Budnitsky, Higher School of Economics, Moscow. 108N Munk School of Global Affairs. 4 to 6 p.m. Registration: webapp.mcis.utoronto. ca/Events.aspx. European, Russian & Eurasian Studies and Jewish Studies

The Battle for Hong Kong:

Days of Infamy.

Thursday, March 31

Speakers: George MacDonell, sergeant of the Royal Rifles in 1941; Prof. Em. Terry Copp, Wilfrid Laurier University; Vince Lopata, historian of the Winnipeg Grenadiers; Nathan Greenfield, author of The Damned: the Canadian at the Battle of Hong Kong and the POW Experience, 1941-45; Neville Poy, honorary colonel emeritus, Queen's York Rangers; William Rawling, historian for Department of National Defence; moderator: Mike Babin, Ontario region director, Hong Kong Veterans Commemorative Association. Richard Charles Lee Canada-Hong Kong Library, Robarts Library. 10 a.m. to noon. Registration: webapp.mcis. utoronto.ca/Events.aspx. Richard Charles Lee Canada-Hong Kong Library, Asian Institute, U of T Libraries and Hong Kong Veterans

Max Weber to North Korea: The Routinization of Charisma. Thursday, March 31

Hyeonik Kwon, London School of Economics & Political Science. 208N Munk School of Global Affairs. utoronto.ca/Events.aspx. Study of Korea and Asian Institute

Global Energy Challenges and the Implications for the EU's Common Energy Policies. Monday, April 4 Frank Umbach, Centre for European

Security Strategies, Munich-Berlin. 208N Munk School of Global Affairs. 4 to 6 p.m. Registration: webapp.mcis. utoronto.ca/Events.aspx. European. Russian & Eurasian Studies, DAAD Information Centre Toronto and German Consulate General Toronto

New Perspectives in the EU and NATO: The Romanian Experience. Tuesday, April 5

Prof. Radu Carp, University of Bucharest.208N Munk School of Global Affairs. 4 to 6 p.m. Registration: webapp.mcis.utoronto.ca/Events.aspx. European, Russian & Eurasian Studies and International Studies

Jews as State Functionaries in France, Germany and the United States: A Comparative Perspective. Tuesday, April 6

Pierre Birnbaum, University of Paris-1; 108N Munk School of Global Affairs. 3 to 5 p.m. Registration: webapp.mcis. utoronto.ca/Events.aspx. *European*, Russian & Eurasian Studies, Centre des Études de la France et du Monde Francophone, History and Jewish Studies

Doing Qualitative Research in Chinese Schools. Wednesday, April 6

Xiangming Chen, Peking University. 208N Munk School of Global Affairs. 3 to 5 p.m. Registration: webapp.mcis. utoronto.ca/Events.aspx. Ethnography, UTSC; Comparative, International and Development Education Centre, OISE; Sociology; Anthropology, UTSC; and Asian Institute

Gav Berlin: Birthplace of a Modern Identity. Thursday, April 7

Prof. Robert Beachy, Stanford University. 208 Sidney Smith Hall. 2 to 4 p.m. Registration: webapp.mcis. utoronto.ca/Events.aspx. *European*, Russian & Eurasian Studies, History, Germanic Languages & Literatures, Sexual Diversity Studies Program and Joint Initiative in German & European Studies

Ukrainian Nationalists, the Ukrainian Auxiliary Police and the Holocaust.

Thursday, April 7 Prof. John-Paul Himka, University of Alberta. 108N Munk School of Global Affairs. 4 to 6 p.m. Registration: webapp.mcis.utoronto.ca/Events.aspx. European, Russian & Eurasian Studies and Joint Initiative in German & European Studies

**Symptomatic Assumptions:** Examining the Foundations of Evolutionary Medicine. Wednesday, April 13

Michael Cournoyea, doctoral fellow, comparative program on health and society. 208N Munk School of Global Affairs. 10 a.m. to noon. Comparative Program on Health & Society

#### MEETINGS & CONFERENCES

Out of Water: Sustaining Development in Arid Climates. Thursday, April 1 and Friday, April 2

The conference will offer a forum for water experts in the fields of design, engineering, natural and social sciences to identify specific disciplinary methodologies and areas of applied and theoretical intersections with respect to the technical and socio-political implications of water scarcity in arid regions. Auditorium, John H. Daniels Faculty of Architecture, Landscape & Design, 230 College St. 9 a.m. to 6 p.m. Tickets \$20, U of T faculty and students \$5. Registration is encouraged: www. uofttix.ca.

#### MUSIC

FACULTY OF MUSIC EDWARD JOHNSON BUILDING Thursdays at Noon. Thursday, March 31

Those horns were made for dancing: a program of dance music, performed by Guy Few, corno and trumpet, Nadina Mackie Jackson, bassoon and Che Anne Loewen, piano. Walter Hall. 12:10 p.m.

Thursday, April 7 Faculty Chamber Ensemble. Walter Hall. 12:10 p.m.

Wind Symphony. Friday, April 1

Jeffrey Reynolds, conductor. MacMillan Theatre. 7:30 p.m. Tickets \$15, students and seniors \$10.

Wind Ensemble. Saturday, April 2

Gillian MacKay, conductor. MacMillan Theatre. 7:30 p.m. Tickets \$15, students and seniors \$10.

Opera Series. Saturday, April 2 and Sunday, April 3

Simply Sondheim, a revue based on the musical theatre works of Stephen Sondheim. Walter Hall. Saturday, 7:30 p.m., Sunday, 2:30 p.m. Tickets \$15, students and seniors \$10.

Faculty Artist Series. Monday, April 4 Shauna, Lydia and Friends: Shauna

Rolston, cellist; and Lydia Wong, piano. Walter Hall. 7:30 p.m.

U of T Concert Orchestra. Tuesday, April 5 Conducted by graduate student

conductors. Waiter Hall. 7:30 p.m. World of Music Wednesday, April 6

1 O'Clock Big Band; Jon Jasavala,

director. Walter Hall. 7:30 p.m.

Sunday, April 10 Percussion Ensemble, Beverley Johnston, director. Walter Hall. 7:30 p.m.

Choirs in Concert. Friday, April 17

Celebrate spring: combined U of T choirs, Hilary Apfelstadt, director. MacMillan Theatre. 7:30 p.m. Tickets \$15, students and seniors \$10.

U of T Symphony Orchestra. Saturday, April 8

David Briskin, conductor. MacMillan Theatre. 7:30 p.m. Tickets \$15, students and seniors \$10.

Chamber Music Series. Monday, April 11 Ebène Quartet. Walter Hall. 7:30 p.m. Tickets \$35, students and seniors \$25.

Ebène Quartet. Tuesday, April 12 Master class. Walter Hall. 10 a.m.

#### **PLAYS & READINGS**

Let Newton Be. Wednesday, April 13

By Craig Baxter; Menagerie Theatre Company production. Isabel Bader Theatre, Victoria University. 7 p.m Tickets \$25, students and seniors \$15. Box office: www.uofttix.ca, 416-978-8849. History & Philosophy of Science & Technology

#### EXHIBITIONS

U OF T ART CENTRE UNIVERSITY COLLEGE Work in Progress. To March 31

Exhibition showcases pieces from emerging artists in the UTM-Sheridan art and art history program. Featured artists are Dorothea Hines, Sebastian Koever, Andre Markovic, Emily Mahon, Patti Meris, Meaghan O'Brien and Breann Ritchie. Art Lounge. Hours: Tuesday to Friday, noon to 5 p.m.; Saturday, noon to 4 p.m.

JUSTINA M. BARNICKE GALLERY HART HOUSE Ron Terada: Who I Think I Am To March 20

Vancouver-based artist Ron Terada has come to international attention for his deadpan appropriations of vernacular texts typically drawn from street signage, popular music, television and advertising using painting, graphic posters and video projections. Both galleries. Gallery hours: Monday to Wednesday and Friday, 11 a.m. to 5 p.m.; Thursday, 11 a.m. to 7 p.m.; Saturday and Sunday, 1 to 5 p.m.

**DORIS McCARTHY GALLERY** U OF T SCARBOROUGH Seeing Sound. To April 13

This exhibition is a 25-year overview of renowned sound and multimedia artist Gordon Monahan's career. Gallery hours: Wednesday to Friday, 10 a.m. to 4 p.m.; Saturday, noon to 5 p.m.

#### COMMITTEES

Director, Centre for Industrial Relations & Human Resources A search committee has been established in the Faculty of Arts & Science to recommend a director for the Centre for Industrial Relations & Human Resources (CIRHR). Members are: Professors Meric Gertler, dean, Faculty of Arts & Science (chair); Michele Campolieti, management, U of T Scarborough and CIRHR; Joe Desloges, principal, Woodsworth College; Rafael Gomez, CIRHR; Peter Pauly and Maria Rotundo, Rotman School of Management; and Elizabeth Smyth, vice-dean (programs), School of Graduate Studies; and Lori Riznek, senior lecturer, CIRHR; Victoria Skelton, head librarian, CIRHR; and Rachael Aleks and Julie Weller, graduate students, CIRHR.

The committee would appreciate receiving nominations and/or comments from interested members of the university community. These should be submitted to Professor Meric Gertler, dean, Faculty of Arts & Science, Room 2005, Sidney Smith Hall, officeofthedean.artsci@utoronto.ca, by April 7.

Chair, Department of Philosophy

A search committee has been established in the Faculty of Arts & Science to recommend a chair of the Department of Philosophy. Members are: Professors Meric Gertler, dean, Faculty of Arts & Science (chair); Stephen Rupp, vice-dean (faculty and academic life), Faculty of Arts & Science; Deborah Black, Imogen Dickie and Sophia Moreau, philosophy; Anjan Chakravartty, Institute for the History & Philosophy of Science & Technology; Brian Corman, dean, School of Graduate Studies; Brand Inwood, philosophy and classics; Philip Kremer, philosophy, U of T Scarborough; and Sergio Tenenbaum, philosophy, U of T Mississauga; and Suzanne Puckering, office manager, philosophy; and Diana Wilson, undergraduate student, and Ariel Zylberman, graduate student, philosophy.

The committee would appreciate receiving nominations and/or comments from interested members of the university community. These should be submitted to Professor Meric Gertler, dean, Faculty of Arts & Science, Room 2005, Sidney Smith Hall, officeofthedean.artsci@utoronto.ca,by April 4.

Chair, Department of Slavic Languages & Literatures

A search committee has been established in the Faculty of Arts & Science to recommend a chair for the Department of Slavic Languages & Literatures. Members are: Professors Meric Gertler, dean, Faculty of Arts & Science (chair); Alan Bewell, English; Brian Corman, dean, School of Graduate Studies; Kate Holland, Taras Koznarsky and Joseph Schallert, Slavic languages and literatures; and Stephen Rupp, vice-dean (faculty and academic life), Faculty of Arts & Science; and Julia Mikhailova, senior lecturer, Slavic languages and literatures; Fiona Gardiner, secretary, Slavic languages and literatures; and Amber Aulen, graduate student, and Emma Burns, undergraduate student, Slavic languages and literatures.

The committee would appreciate receiving nominations and/or comments from interested members of the university community. These should be submitted to Professor Meric Gertler, dean, Faculty of Arts & Science, Room 2005, Sidney Smith Hall, officeofthedean.artsci@utoronto.ca,by April 7.

Chair, Department of Philosophy, UTM

A search committee has been established at the University of Toronto at Mississauga (UTM) to recommend a chair for the Department of Philosophy. Members are: Professors Amy Mullin, vice-principal (academic) and dean, UTM; Donald Ainslie, philosophy, St. George campus; Gurpreet Rattan, Marleen Rozemond and Jonathan Weisberg, philosophy, UTM; and Ronald Beiner, political science, UTM; and Elisabeta Vanatoru, administrative assistant, philosophy, UTM; and Ashlee

Ferreira, undergraduate student, UTM. The committee would appreciate receiving nominations and/or comments from interested members of the university community by April 12. These should be submitted to Professor Amy Mullin, vice-principal (academic) and dean, Room 3200H, William G. Davis Building, UTM.

# THE SENDAL EARTHQUAKE OF MARCH 11, 2011

BY NICK EYLES

Japan is one of the most dangerous places to live anywhere on earth: "earthquake central" with volcanoes thrown in for good measure. It lies where four plates come together and they don't like each other. In a relatively small, densely urbanized island such as this, the effects of earthquakes, volcanic eruptions and tsunamis are magnified. Acceptance of natural disasters and the tough times that follow is hard-wired into the national psyche.

Japan is made up of some 3,900 islands and four large ones: Honshu, Hokkaido, Kyushu and Shikoku. Japan was not always surrounded by water but was joined to the Asian continent until just 15 million years ago. Subduction of the thick oceanic crust of the Pacific and Philippine plates down below Asia created an arc of volcanoes along the coast something like the modern day Andes in South America.

Old heavy slabs of oceanic crust such as these descend very steeply under Japan (called a subduction zone), often curling under themselves (a process called subduction rollback). This has had the effect of pulling off a sliver of continental crust from the outer edge of the Asian continent and opening up the Sea of Japan (which geologists call a backarc basin) between the coast and the modern day islands of Japan.

According to legend, Japan lies above a giant catfish pinned below a granite stone held in place by a god (Kashima) of the Earth. The thrashing of its tail is felt as an earthquake. The subducting Pacific plate sticks to the plate above, bending its outer edge downward like a bent ruler. Every now and again, the bending plate (the ruler) springs back violently. Minor earthquakes are felt almost daily in different parts of the country with some estimates of as many as 1,200 earthquakes each year; any of these would be of major concern here in Ontario.

Japan is cut up by major fault zones that divide the country into crustal blocks that mark the boundaries of the four tectonic plates making up this part of the Pacific Rim. The pattern of past earthquakes reveals sectors each with its own clockwork frequency of tremors. On average, there is a disastrous earthquake every 90 to 150 years. This behaviour reflects the "stick-slip" motions of the faults. When plates are locked, strain builds up and there are no earthquakes (creating what is called a seismic gap). With time, the strength of rocks is overcome and the fault abruptly ruptures (slip) creating a powerful tremor, extensive damage and uplift of the coastal margin as the

overlying plate springs free.
Fusakichi Omori (1868-1923) was the first professional Japanese seismologist and he completed a detailed statistical study of weather patterns and air pressure during earthquakes. He showed that many had occurred at times of little or no wind.

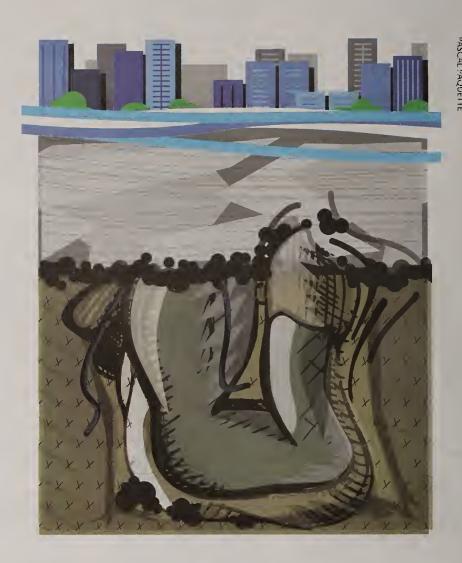
Omori is perhaps best remembered for his gap theory. By mapping the location and timing of past events, the frequency of major earthquakes would be revealed, giving potentially life-saving clues as to future events. In this he was absolutely right. He identified seismic gaps where earthquakes were overdue and could be expected shortly; the basis of most modern predictive capability, albeit on timescales of decades, not years. But there was a deadly limitation; Japan is an island and many faults lie offshore out of the reach of investigation.

Prior to this month's cataclysmic events, the Great Hanshin earthquake of Jan. 17, 1995 was the latest blow to Japan, occurring near the city of Kobe. It was the largest quake since 1923. Neither the city nor disaster preparedness managers were fully up to the task of fighting more than 160 fires. Some 5,000 people died and 300,000 were made homeless. Infrastructure was not destroyed but rendered useless by tilting and flooding as the land suddenly sank. In this case, traditional Japanese wood frame houses with heavy tile roofs were especially at risk when they were shaken.

The lesson here is that every earthquake is different, offering new challenges because of the vagaries of local geology below the city and the depth of the quake. At the time, it was the most expensive natural disaster in history (\$100 billion). This year's Sendai quake of March 11 will be remembered for its effects on two nuclear plants in Fukushima, specifically the loss of coolant to keep the reactors cool. The reactors had been shut down but the backup power supply (diesel generators) failed. New data show the entire coastal margin to have been tilted back towards land, magnifying the destructive power of the resulting tsunami.

Thanks to the development of plate tectonic theory in the 1960s, geologists now have a clear understanding of the causes of earthquakes. But there are still a lot of unanswered questions surrounding large magnitude "super quakes" triggered in subduction zones. The ability to predict them is no closer than it was in Omori's day. Scientists know why these earthquakes happen, but they're less sure of the precise

What does it mean to us?



processes and can't yet read the telltale signs that precede them.

And what, you might ask, does all this mean for Canada? We are a Pacific Rim country just like Japan; the tectonic setting of Vancouver is no different from Tokyo but its geology is even more hazardous. Much of Vancouver, our only major west coast port, sprawls across soft, wet sediment left by the ancestral Fraser River. Large submarine landslides on the river's offshore delta tell of large prehistoric tremors, ghost forests of dead trees suddenly drowned by subsidence during major earthquakes and sand layers preserved in coastal marshes keep a record of ancient Pacific tsunamis. Past is prelude; a foretaste of what is to come.

Southern Ontario on the other hand, occupies a so-called "intraplate" setting, a safe place it was then thought when our nuclear plants were built decades ago in the absence of any fundamental knowledge of the faults that lie directly below Pickering or how Canada's geology had even been put together. Some geologists speculate that a large break (rift) in the crust lies deep below Lake Ontario connected to the dangerous St. Lawrence Rift, which underlies the Ottawa Valley and St. Lawrence River, extending as an arm down the Hudson valley to New York.

Moderately large damaging earthquakes occurred in 1732 (Montreal; M5.8), in 1935 (Timiskaming; M6.2) and in 1944 (Cornwall, Ont.-Massena, New York; M5.6). The last was Canada's costliest with considerable impact on urban infrastructure. Large landslides in the Ottawa Valley and active faults below the floors of lakes in the northern reaches of the valley again indicate large prehistoric earthquakes. As geologic research moves forward, so the recurrence time of such earthquakes steadily shrinks. A magnitude 7 earthquake every couple of thousand years is now suggested. But when was the last? Do we know the full population of faults below our towns and cities? Do we know enough about how local rocks and sediments behave when shaken?

The answer is that there is no safe place on the planet; we live on the surface of a mobile crust always on the move. Safeguarding the population from natural hazards is as important as preventing wars or disease; perhaps even more so since the last 12 months have been the deadliest yet for earthquakes.

Here then lie challenges to our universities: to educate students and the public regarding the nature of the planet we live on and the tectonic threat. Here lie opportunities for programs in environmental geoscience to create those scientists on whom our future might depend. From pollution, depleting resources, to geologic hazards we need to know much more of our deadly neighbour.

Nick Eyles is a professor in the Department of Physical and Environmental Sciences at the University of Toronto Scarborough. Visit https://webapps.utsc.utoronto.ca/ose/story.php?id=2607&sectid=1 for a more detailed version of this essay.